

#3



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RAW SEQUENCE LISTING

DATE: 06/24/2002

PATENT APPLICATION: US/10/062,831

TIME: 09:49:46

Input Set : N:\Crf3\RULE60\10062831.txt

Output Set: N:\CRF3\06242002\J062831.raw

1 <110> APPLICANT: Steven M. Ruben, et al.
 3 <120> TITLE OF INVENTION: 32 Human Secreted Proteins
 5 <130> FILE REFERENCE: PZ006P1
 7 <140> CURRENT APPLICATION NUMBER: 10/062,831
 8 <141> CURRENT FILING DATE: 2002-02-05
 10 <150> PRIOR APPLICATION NUMBER: 09/690,454
 11 <151> PRIOR FILING DATE: 1998-11-10
 13 <150> PRIOR APPLICATION NUMBER: PCT/US98/10868
 W--> 14 <151> PRIOR FILING DATE: May 28, 1998
 16 <150> PRIOR APPLICATION NUMBER: 60/044,039
 W--> 17 <151> PRIOR FILING DATE: May 30, 1997
 19 <150> PRIOR APPLICATION NUMBER: 60/048,093
 W--> 20 <151> PRIOR FILING DATE: May 30, 1997
 22 <150> PRIOR APPLICATION NUMBER: 60/048,190
 W--> 23 <151> PRIOR FILING DATE: May 30, 1997
 25 <150> PRIOR APPLICATION NUMBER: 60/050,935
 W--> 26 <151> PRIOR FILING DATE: May 30, 1997
 28 <150> PRIOR APPLICATION NUMBER: 60/048,101
 W--> 29 <151> PRIOR FILING DATE: May 30, 1997
 31 <150> PRIOR APPLICATION NUMBER: 60/048,356
 W--> 32 <151> PRIOR FILING DATE: May 30, 1997
 34 <150> PRIOR APPLICATION NUMBER: 60/056,250
 W--> 35 <151> PRIOR FILING DATE: August 29, 1997
 37 <150> PRIOR APPLICATION NUMBER: 60/056,296
 W--> 38 <151> PRIOR FILING DATE: August 29, 1997
 40 <150> PRIOR APPLICATION NUMBER: 60/056,293
 W--> 41 <151> PRIOR FILING DATE: August 29, 1997
 43 <160> NUMBER OF SEQ ID NOS: 229
 45 <170> SOFTWARE: PatentIn Ver. 2.0
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 49 <211> LENGTH: 733
 50 <212> TYPE: DNA
 51 <213> ORGANISM: Homo sapiens
 53 <400> SEQUENCE: 1
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 55 aattcgaggg tgcaccgtca gtcttccctct tccccccaaa acccaaggac accctcatga 120
 56 tctcccggac tcctgaggtc acatgcgttg tggtggacgt aagccacgaa gaccctgagg 180
 57 tcaagttcaa ctggtacgtg gacggcgttg aggtgcataa tgccaagaca aagccgcggg 240
 58 aggagcagta caacagcacg taccgtgttg tcagcgtcct caccgtcctg caccaggact 300
 59 ggctgaatgg caaggagtac aagtgcagg tctccaacaa agccctccca acccccatcg 360
 60 agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420
 61 catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctgggtc aaaggcttct 480
 62 atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagAAC aactacaaga 540

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Output Set: N:\CRF3\06242002\J062831.raw

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63 ccacgcctcc cgtgctggac tccgacggct ccttcttcct ctacagcaag ctcaccgtgg      600
64 acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc      660
65 acaaccacta cacgcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc      720
66 gactctagag gat                                          733
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70 <211> LENGTH: 5
71 <212> TYPE: PRT
72 <213> ORGANISM: Homo sapiens
74 <220> FEATURE:
75 <221> NAME/KEY: Site
76 <222> LOCATION: (3)
77 <223> OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
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81      1          5
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90 cccgaaatat ctgccatctc aattag                                          86
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109 aaatatctgc catctcaatt agtcagcaac catagtcccc cccctaactc cgcccatccc      120
110 gccctaact cgcgccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat      180
111 ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt      240
112 ttttgagggc ctaggctttt gcaaaaagct t                                          271
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116 <211> LENGTH: 32
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126 <212> TYPE: DNA
127 <213> ORGANISM: Homo sapiens
129 <400> SEQUENCE: 7

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Input Set : N:\Cr3\RULE60\10062831.txt

Output Set: N:\CRF3\06242002\J062831.raw

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136 <213> ORGANISM: Homo sapiens
138 <400> SEQUENCE: 8
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142 <210> SEQ ID NO: 9
143 <211> LENGTH: 73
144 <212> TYPE: DNA
145 <213> ORGANISM: Homo sapiens
147 <400> SEQUENCE: 9
148 gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg 60
149 ccattctcaat tag 73
152 <210> SEQ ID NO: 10
153 <211> LENGTH: 256
154 <212> TYPE: DNA
155 <213> ORGANISM: Homo sapiens
157 <400> SEQUENCE: 10
158 ctcgagggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct 60
159 caattagtca gcaaccatag tcccgcccct aactccgccc atcccgcccc taactccgcc 120
160 cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180
161 ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240
162 cttttgcaaa aagctt 256
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166 <211> LENGTH: 1169
167 <212> TYPE: DNA
168 <213> ORGANISM: Homo sapiens
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171 <221> NAME/KEY: SITE
172 <222> LOCATION: (1151)
173 <223> OTHER INFORMATION: n equals a,t,g, or c
175 <220> FEATURE:
176 <221> NAME/KEY: SITE
177 <222> LOCATION: (1160)
178 <223> OTHER INFORMATION: n equals a,t,g, or c
180 <220> FEATURE:
181 <221> NAME/KEY: SITE
182 <222> LOCATION: (1168)
183 <223> OTHER INFORMATION: n equals a,t,g, or c
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187 gaggggttcg ggggttcttg gcaggcacia tggcgtctcg agcaggcccc cgagcgcccg 120
188 rcaccgacgc agcgagcttt cagcaccggg agcgcgtcgc catgcactac cagatgagtg 180
189 tgaccctcaa gtatgaaatc aagaagctga tctacgtaca tctggtcata tggctgctgc 240
190 tggttgctaa gatgagcgtg ggacacctga ggctcttgtc acatgatcag gtggccatgc 300
191 cctatcagtg ggaatacccg tatttgctga gcattttgcc ctctctcttg ggccttctct 360
192 cctttccccc caacaacatt agctacctgg tgctctccat gatcagcatg ggactctttt 420
193 ccatcgctcc actcatttat ggcagcatgg agatgttccc tgctgcacag ccttctaccg 480

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194 ccatggcaag gcctaccgtt tcctctttgg tttttctgcc gtttccatca tgtacctggt      540
195 gttggtgttg gcagtgaag tgcattgctg gcagttgtac tacagcaaga agctcctaga      600
196 ctcttggttc accagcacac aggagaagaa gcataaatga agcctctttg ggggtgaagcc      660
197 tggacatccc atcgaatgaa aggacactag tacagcggtt ccaaaatccc ttctggtgat      720
198 ttttagcagct gtgatgttgg tacctggtgc agaccaggc caaagtctctg gaaagctcct      780
199 tttgccatct gctgaggtgg caaaactata atttattcct ggttggtctag aactgggtga      840
200 ccaacagcta tgaacaaat ttcagctgtt tgaagttgaa ctttgaggtt tttctttaag      900
201 aatgagcttc gtcttgcct ctactcggtc atttcccca ttccatcca ttaccctta      960
202 gccattgaga cttaaaggaaa tagggaataa atcaaattac ttcatctcta ggtcacgggt     1020
203 caggaaacat ttgggcagct gctcccttgg cagctgtggt ctctctgca aagcatttta     1080
204 attaaaaacc tcaataaaga tgccctgcc acaaaaaaaaa aaaaaaaaaa aattcggggg     1140
W--> 205 ggggcccggg naaccaatn gccctana      1169
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209 <211> LENGTH: 1310
210 <212> TYPE: DNA
211 <213> ORGANISM: Homo sapiens
213 <400> SEQUENCE: 12
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215 gagtggagtg tccgctgtgc ccgggcctgc accatgagcg tcccggcctt catcgacatc     120
216 agtgaagaag atcaggctgc tgagcttcgt gcttatctga aatctaaagg agctgagatt     180
217 tcagaagaga actcgggaagg tggacttcat gttgatttag ctcaaattat tgaagcctgt     240
218 gatgtgtgtc tgaaggagga tgataaagat gttgaaagtg tgatgaacag tgtggtatcc     300
219 ctactcttga tcctggaacc agacaagcaa gaagctttga ttgaaagcct atgtgaaaag     360
220 ctggtcaaat ttcgcgaagg tgaacgcccg tctctgagac tgcagttgtt aagcaacctt     420
221 ttccacggga tggataagaa tactcctgta agatacacag tgtattgcag ccttattaaa     480
222 gtggcagcat cttgtggggc catccagtac atcccaactg agctggatca agttagaaaa     540
223 tggatttctg actggaatct caccactgaa aaaaagcaca cccttttaag actactttat     600
224 gaggcacttg tggattgtaa gaagagtgat gctgcttcaa aagtcattgg ggaattgctc     660
225 ggaagttaca cagaggacaa tgcttcccag gctcagattg atgccacag gtgtattgta     720
226 cgagcattga aagatccaaa tgcatttctt tttgaccacc ttcttacttt aaaaccagtc     780
227 aagtttttgg aaggcagcgt tattcatgat cttttaacca tttttgtgag tgctaaattg     840
228 gcatcatatg tcaagtttta tcagaataat aaagacttca ttgattcact tggcctgtta     900
229 catgaacaga atatggcaaa aatgagacta cttactttta tgggaatggc agtagaaaaat     960
230 aaggaaatth cttttgacac aatgcagcaa gaacttcaga ttggagctga tgatgttgaa     1020
231 gcatttgtaa ttgacgccgt aagaactaaa atggtctact gcaaaattga tcagaccag     1080
232 agaaaagtag ttgtcagtca tagcacacat cggacatttg gaaaacagca gtggcaacaa     1140
233 ctgtatgaca cacttaatgc ctggaaacaa aatctgaaca aagtgaaaaa cagccttttg     1200
234 agtctttctg atacctgagt ttttatgctt ataatttttg ttctttgaaa aaaaagccct     1260
235 aaatcatagt aaaacattat aaactaaaaa aaaaaaaaaa aaaaaaaaaa      1310
238 <210> SEQ ID NO: 13
239 <211> LENGTH: 1139
240 <212> TYPE: DNA
241 <213> ORGANISM: Homo sapiens
243 <220> FEATURE:
244 <221> NAME/KEY: SITE
245 <222> LOCATION: (7)
246 <223> OTHER INFORMATION: n equals a,t,g, or c
248 <220> FEATURE:
249 <221> NAME/KEY: SITE

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Input Set : N:\Crf3\RULE60\10062831.txt

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250 <222> LOCATION: (133)
251 <223> OTHER INFORMATION: n equals a,t,g, or c
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254 <221> NAME/KEY: SITE
255 <222> LOCATION: (968)
256 <223> OTHER INFORMATION: n equals a,t,g, or c
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259 <221> NAME/KEY: SITE
260 <222> LOCATION: (1139)
261 <223> OTHER INFORMATION: n equals a,t,g, or c
263 <400> SEQUENCE: 13
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      265 ccctcgagcg gtgccggagc gcascagggt gtgcttgtgc ctgggccaagc tggagagggtc      120
W--> 266 cattgcctgg gangaagtct gtcaacaaag tgacatgtct agtctgccgg aagggtgaca      180
      267 atgatgagtt tcttctgctt tgtgatgggt gtraccgtgg ctgccacatt tactgccatc      240
      268 gtcccaagat ggaggctgtc ccagaaggag attggttctg tactgtctgt ttggtcagc      300
      269 aggtggaggg agaattcact cagaagcctg gtttcccaa gcgtggccag aagcgga      360
      270 gtggttattc gctgaacttc tcagagggtg atggccgcg acgcccggta ctggtgagg      420
      271 gccgagaaag ccagcagca gggcctcgg actcggaaag agggctctcc ccctccaagc      480
      272 ggcggcgact ctctatgcgg aaccaccaca gtgatctcac attttgcgag attatcctga      540
      273 tggagatgga gtcccatgat gcagcctggc ctttcctaga gcctgtgaac ccacgtttgg      600
      274 tgagtgggta ccggcgcatc atcaaaaatc ctatggattt ttccaccatg cgggagcggc      660
      275 tgctcagggg aggttacacc agctcagagg agtttgcggc tgatgccctc ctggtatttg      720
      276 acaactgcca gactttcaac gaggatgact ctgaagtagg caaggctggg cacatcatgc      780
      277 gccgcttctt cgagagccgc tgggaggagt tttatcaggg aaaacaggcc aatctgtgag      840
      278 gcaagggagg tggggagtca ccttgtggca tctccccca ccttccaaac aaaaacctgc      900
      279 cattttcacc tgctgatgct gccctgggtc cagactcaag tcagatacaa ccctgatttt      960
W--> 280 tgaccttncc cttggcagtg ccccatatcc tcttattcct acatcccttt ctcccttccc      1020
      281 tcctcttctt cctcaagtaa gaggtgcaga gatgagggtc ttctggacta aaagccaaaa      1080
W--> 282 aaagaaagaa aaaaaaawaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaan      1139
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286 <211> LENGTH: 2271
287 <212> TYPE: DNA
288 <213> ORGANISM: Homo sapiens
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293 ctccctgtca gacaagaccc agctccacag cagggtggctg gactcgtcgc ggtgtctcat      180
294 gcagcagggc atcaaggccg gggacgcact ctggctgcgc ttcaagtact acagcttctt      240
295 cgatttggtt cccaagacag acccctgtcg gctgacacag ctgtatgagc aggcccggtg      300
296 ggacctgctg ctggaggaga ttgactgcac cgaggaggag atgatggtgt ttgccgcctt      360
297 gcagtaccac atcaacaagc tgtcccagag cggggagggtg ggggagccgg ctggcacaga      420
298 ccagggctg gacgacctgg atgtggccct gagcaacctg gaggtgaagc tggaggggtc      480
299 ggcgcccaca gatgtgctgg acagcctcac caccatccca gagctcaagg accatctccg      540
300 aatctttcgg ccccggaagc tgaccctgaa gggctaccgc caacactggg tgggtgttaa      600
301 ggagaccaca ctgtcctact acaagagcca ggacgaggcc cctggggacc ccattcagca      660
302 gctcaacctc aagggtgtg aggtggttcc cgatgttaac gtctccggcc agaagttctg      720
303 cattaaactc ctagtgcctt cccctgaggg catgagttag atctacctgc ggtgccagga      780
304 tgagcagcag tatgcccgtt ggatggctgg ctgccgcctg gctccaaag gccgcacct      840

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RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; Xaa Pos. 3
Seq#:11; N Pos. 1151,1160,1168
Seq#:13; N Pos. 7,133,968,1139
Seq#:15; N Pos. 22,591
Seq#:17; N Pos. 979,1007,1040,1050
Seq#:18; N Pos. 639,697,1347,1361
Seq#:19; N Pos. 20
Seq#:20; N Pos. 1267
Seq#:22; N Pos. 1283
Seq#:24; N Pos. 452,480
Seq#:25; N Pos. 580,621,1159
Seq#:26; N Pos. 847,1303,1307,1314
Seq#:28; N Pos. 9,21
Seq#:29; N Pos. 922
Seq#:31; N Pos. 2,28,44
Seq#:32; N Pos. 1057
Seq#:33; N Pos. 855,881,916,957
Seq#:34; N Pos. 1889
Seq#:35; N Pos. 18,26,1014,1015,1018
Seq#:37; N Pos. 8,586
Seq#:38; N Pos. 395
Seq#:40; N Pos. 597
Seq#:41; N Pos. 37
Seq#:43; N Pos. 1591,1703
Seq#:47; Xaa Pos. 146
Seq#:48; Xaa Pos. 312
Seq#:51; Xaa Pos. 83
Seq#:52; Xaa Pos. 63
Seq#:53; Xaa Pos. 114,124
Seq#:54; Xaa Pos. 8,27,84,85,86,99,180
Seq#:55; Xaa Pos. 221,287
Seq#:56; Xaa Pos. 34
Seq#:57; Xaa Pos. 24
Seq#:58; Xaa Pos. 47
Seq#:59; Xaa Pos. 114
Seq#:60; Xaa Pos. 26,32
Seq#:61; Xaa Pos. 19,33,81
Seq#:63; Xaa Pos. 146
Seq#:64; Xaa Pos. 31
Seq#:65; Xaa Pos. 260
Seq#:67; Xaa Pos. 27
Seq#:68; Xaa Pos. 64,65
Seq#:69; Xaa Pos. 216
Seq#:70; Xaa Pos. 407

RAW SEQUENCE LISTING ERROR SUMMARY
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Seq#:72; Xaa Pos. 34
Seq#:73; Xaa Pos. 55
Seq#:74; Xaa Pos. 17,26
Seq#:76; Xaa Pos. 33
Seq#:77; Xaa Pos. 6,23
Seq#:78; Xaa Pos. 18,21,80,102
Seq#:79; Xaa Pos. 148,186,208
Seq#:80; Xaa Pos. 95,100,146
Seq#:81; Xaa Pos. 23
Seq#:82; Xaa Pos. 21,31
Seq#:112; Xaa Pos. 82,83,123,194
Seq#:116; Xaa Pos. 3,4
Seq#:117; Xaa Pos. 14
Seq#:119; Xaa Pos. 24
Seq#:121; Xaa Pos. 7
Seq#:135; Xaa Pos. 120,139
Seq#:150; Xaa Pos. 123
Seq#:153; Xaa Pos. 81
Seq#:154; Xaa Pos. 71
Seq#:155; Xaa Pos. 30,115
Seq#:156; Xaa Pos. 13,97
Seq#:161; Xaa Pos. 13
Seq#:171; Xaa Pos. 88
Seq#:173; Xaa Pos. 23
Seq#:181; Xaa Pos. 30,31,32
Seq#:182; Xaa Pos. 16,23,25,26,27
Seq#:190; Xaa Pos. 18,29
Seq#:196; Xaa Pos. 85,97,157
Seq#:201; Xaa Pos. 13,18,39
Seq#:202; Xaa Pos. 16
Seq#:220; Xaa Pos. 72
Seq#:221; Xaa Pos. 39
Seq#:222; Xaa Pos. 62,84,143,152
Seq#:223; Xaa Pos. 74,92

VERIFICATION SUMMARY

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Output Set: N:\CRF3\06242002\J062831.raw

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L:17 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:20 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
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L:38 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:41 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:1140
L:264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:120
L:280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:960
L:282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:1080
L:347 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:540
L:446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:960
L:447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:1020
L:486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:600
L:487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:660
L:498 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:1320
L:512 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:1260
L:638 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:1260
L:711 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:420
L:769 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:540
L:770 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:600
L:779 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:1140
L:823 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:840
L:830 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:1260
L:872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:912 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:900
L:979 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:1021 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:1020
L:1068 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:840
L:1069 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:900
L:1115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:1860
L:1149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0
L:1165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:960
L:1206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:1215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:540
L:1242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:360
L:1292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:540
L:1307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0
L:1393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:1560
L:1395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:1680

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/062,831

DATE: 06/24/2002

TIME: 09:49:47

Input Set : N:\Crf3\RULE60\10062831.txt

Output Set: N:\CRF3\06242002\J062831.raw

L:1540 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:144
L:1612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:304
L:1761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:80
L:1785 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:48
L:1826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:112
L:1871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:0
L:1874 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:16
L:1886 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:80
L:1889 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:96
L:1904 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:176
L:1963 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:208
L:1975 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:272